

Work Order ID 140532

140532

Page 1

Thursday, January 07, 2016 1:24:16 PM

Item ID: D2712 Accept *N900040100* Setup Start *NS1*

Revision ID: Stop *NS2*

Item Name: Set Screw

Start Date: 1/7/2016 Start Qty: 100.00 *100* Cust Item ID:

Required Date: 1/7/2016 Req'd Qty: 100.00 *100* Customer:

Reference:

Approvals: Process Plan: MLS Date: JAN 07 2016 Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start *NR1*

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D2712	Rev B								
100	PURCHASING	0.00				DAS 13 9-89		JAN 12 2016	100
100	Purchasing	0.00							
Purchasing	Memo								
	Issue P/O: <u>30969</u> For Hex Head Set Screw P/N: 92311A599								
	as per Dwg D2712 Thread: 5/16-24UNF Length: 5/8" long SS Possible								
	Supplier: McMaster Material release note is required								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110	Packaging	0.03							
Packaging	Memo								
	Ensure material release note is attached								
120	QC6- Inspect dimensions to drawing	0.00							
120	QC	0.00							
Quality Control	Memo								

100x 80 16-01-15

100

DAS
38
9-89

JAN 18 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval			
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval			
Root Cause		FAULT CATEGORY									
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____									
Misidentified ☐	Past Due ☐										

Thursday, January 07, 2016 1:24:16 PM

Item ID: D2712

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Set Screw

Start Date: 1/7/2016 **Start Qty:** 100.00

100

Cust Item ID:

Required Date: 1/7/2016 **Req'd Qty:** 100.00

100

Customer:

Reference:

Run Start *NR1*

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Stop ***NR2***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center ID

Operation Description

Set Up/ Run Hours

Tool ID

Tool #	Plan Code
--------	-----------

**Accept
Qty**

Reject
QtyReject
Number

**Insp.
Stamp**

130

Identify as per dwg & Stock Location: 5012A

0.00

130

Packaging

Memo

0.02

Packaging

DAS
6
9-88

JAN 19 2016

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.17

Quality Control

JAN 19 2016

JAN 19 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

Picklist Print

Thursday, January 07, 2016 1:24:24 PM

Work Order ID: 140532

140532

Parent Item: D2712

D2712

Parent Item Name: Set Screw

Start Date: 1/7/2016

Required Date: 1/7/2016

Start Qty: 100.00

Required Qty: 100.00

Comments: IPP: C05.09.13ReformatKJ/JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

92311A599

Purchased

No

100

Each

0.0000

1

100

92311A599

SET SCREW

100 x 8p/6-01-15

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

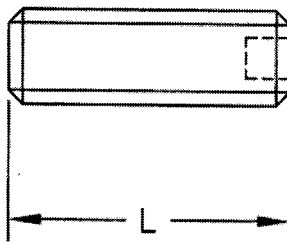
Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					

Root Cause			FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____						
Misidentified	☐	Past Due	☐							



DESIGN	DS	DRAWN BY	CP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	APPROVED	<i>[Signature]</i>	DRAWING NO.	REV. B
				D2712	SHEET 1 OF 1
DATE				TITLE	SCALE
05.05.04				SET SCREW	NTS
A	97.11.03			NEW ISSUE	
B	05.05.04			MATERIAL NOW SS ONLY	

RELEASED
05-09-06 *[Signature]*



D2712 SET SCREW

- 1) TYPE: HEX SOCKET HEAD SET SCREW
- 2) THREAD: 5/16"-24 (UNF)
- 3) LENGTH: L= 5/8" TO 3/4"
- 4) MATERIAL: STAINLESS STEEL

SHOP COPY
RETURN TO
ENGINEERING
UNCO. FROM FILED COPY
SUBJECT TO ASSIGNMENT
WITHOUT NOTICE
WORK ORDER
NO. 140532-MC5
16-01-07

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DART
AEROSPACE

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO30969**

Purchase Order Date 1/12/2016

PO Print Date 1/12/2016

Page Number 2 of 7

Order From :

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

VU-MCM001

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

330 995 5500

Ship To Contact

Ship To Phone

Ship Via:

Purolator ground ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

Line Total:

\$8.60

4 92311A599

SET SCREW

1/14/2016

Yes

1/14/2016

100.00

Each

\$0.22

\$21.60

AS PER DWG D2712 REV. B
B140532

Line Total:

\$21.60

5 6718K52

Fitting, Quick Disconnect

1/14/2016

Yes

1/14/2016

5.00

Each

\$5.64

\$28.20

AS PER DWG D4182 REV. B
B140529

Line Total:

\$28.20

6 71725-45

3481T8 PARKING SIGN

1/14/2016

Yes

1/14/2016

2.00

Each

\$29.48

\$58.96

Note:

1/12/2016

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO30969

Order Placed By
Chantal Lavoie

McMaster-Carr Number
5554149-01

Page 1 of 1

01/12/2016

Line	Product	Ordered	Shipped
1	8672K31 UHMW Polyethylene Trim, Screw Mount, U-Shape, 1" Inside Width	40 Feet	40
2	9928K53 Impact-Resistant UHMW Polyethylene U-Channel, 1" Base X 3/4" Legs, 1/4" Thick, 8' Long	24 Feet	24
3	95606A170 Nylon Flat Washer, 7/16" Screw Size, 0.500" ID, 0.688" OD, Off-White, Packs of 100	1 Pack	1
4	92311A599 18-8 Stainless Steel Cup Point Set Screw, 5/16"-24 Thread, 5/8" Long, Packs of 50	2 Packs	2
5	6718K52 Stainless Steel Industrial-Shape Hose Coupling, Plug, 1/4" NPTF Female, 1/4 Coupling Size	5 Each	5
6	3481T8 Reflective Aluminum Parking Sign, 12" X 18", "Visitor Parking Only"	2 Each	2
7	8841A21 Multi-Diameter Step Drill Bit, High-Speed-Steel, 13 Sizes, 1/8"-1/2", 1/4" Shank Diameter, 1/8" Max Thickness	8 Each	8
8	3814A301 8-Point Breakaway Blade for, Breakaway-Blade Knife, Packs of 100	2 Packs	2
9	8855K34 1006-1008 Carbon Steel Wire, Galvanized, .063" Diameter, 100-lb Coil, 9600' Coil	1 Each	1
10	9434T17 Steel Clamp with One Mounting Hole, 1/2" ID, Packs of 50	2 Packs	2
11	2424A55 Conduit Bender, 1/2 EMT Capacity, Aluminum	1 Each	1
12	2424A65 Conduit Bender, 3/4 EMT, 1/2 IMC & Rigid Capacity, Aluminum	1 Each	1
13	69995K84 Battery Box, 11-3/4" H X 11" W X 7-7/8" D Inside, Polypropylene	1 Each	1
14	4424A506 Flexible Cylinder Hone, for Aluminum & Soft Metals, 7/8" Cylinder ID, 320 Grit	1 Each	1
15	4424A506 Flexible Cylinder Hone, for Aluminum & Soft Metals, 7/8" Cylinder ID, 600 Grit	1 Each	1
16	91732A368 18-8 Stainless Steel Standard Helical Insert, 1/4"-20 Internal Thread, .25" Length, MS122081, Packs of 10	3 Packs	3
17	2684A29 Through-Hole Tap for Steel, Stainless Steel, & Fiberglass, 4-40 Thread Size	3 Each	3

SP/6-01-15

McMaster-Carr Supply Company
 200 Aurora Industrial Pkwy
 Aurora, OH 44202-8087 USA
 Phone: 330-995-5500 Fax: 330-995-9600
 E-Mail: cle.sales@mcmaster.com
 Employer Identification Number (EIN): 36-1458720

Invoice: 47076967
 Purchase Order: PO30969
 Release:
 McMaster-Carr Number: 5554149-01

ORIGINAL COMMERCIAL
INVOICE
 CERTIFICATE OF ORIGIN

Ultimate Destination:
 Dart Aerospace Ltd
 1270 Aberdeen St
 Hawkesbury ON K6A 1K7
 Canada

Shipped: 12-Jan-2016 FOB: ORIGIN
 Shipper's Export Declaration (SED):
 NO EEI 30.36

Intermediate Consignee:

Bill To:
 Dart Aerospace Ltd
 1270 Aberdeen St
 Hawkesbury ON K6A 1K7
 Canada

Tax Number:

Forwarding Agent:

Billing
 Attention:
 Shipping
 Attention:
 Contact:

Line	Description	Qty & Unit	Unit Price	Extension
1	8672K31 UHMW Polyethylene Trim, Screw Mount, U-Shape, 1" Inside Width Country of Origin: United States Schedule B #: 391610 ECCN #: EAR99 NLR	40 FT	\$3.26	\$130.40
2	9928K53 Impact-Resistant UHMW Polyethylene U-Channel, 1" Base X 3/4" Legs, 1/4" Thick, 8' Long Country of Origin: United States Schedule B #: 391610 ECCN #: EAR99 NLR	24 FT	\$2.28	\$54.72
3	95606A170 Nylon Flat Washer, 7/16" Screw Size, 0.500" ID, 0.688" OD, Off-White, Packs of 100 Country of Origin: United States Schedule B #: 392690 ECCN #: EAR99 NLR	1 PK	\$8.60	\$8.60
4	92311A599 18-8 Stainless Steel Cup Point Set Screw, 5/16"-24 Thread, 5/8" Long, Packs of 50 Country of Origin: Taiwan Schedule B #: 731815 ECCN #: EAR99 NLR	2 PK	\$10.80	\$21.60

8/16-01-15.

Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to US law is prohibited.

Shipping Weight (in kgs): 95	Number of Packages: 2	Invoice Amounts:	Merchandise Amount: \$973.97
Package Dimensions:			Canadian GST/HST: \$126.61
			Total (In USD): \$1,100.58
Authorized Signature: <i>Sarah Weinberg</i>	Date: 12-Jan-2016	Payment Terms: 2% discount on merchandise only if paid within 10 days, net 30 days	
Name: Sarah Weinberg	Title: Operations Mgr.	Remit payment to: (by wire transfer) Bank of America Illinois 231 S LaSalle Chicago, IL 60697 ABA 071000039 Account 86666-02021 SWIFT BOFAUS3N	